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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application of:

KENNETH ABEND, ET AL.

Serial No.: 10/801,495

Group Art Unit: 3737

Confirmation No.: 1813

Examiner: To Be Assigned

Filed: March 16, 2004

For: INCREASED SENSITIVITY FOR 4-D  
ULTRASOUND IMAGING AND FOR  
4-D DOPPLER ULTRASOUND IMAGING

I hereby certify that this correspondence and/or  
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**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, applicant and his attorney respectfully request that the following patents and publications be made of record in the official United States Patent and Trademark Office file relating to the above-identified application. The citation of the following patents and publications should not be construed as an admission that they constitute prior art with respect to the present invention.

U.S. Patent Nos.

5,148,810	5,922,962
5,261,408	5,928,151
5,291,892	5,971,927
5,409,010	6,066,096
5,546,807	6,135,971
5,623,930	6,148,095
5,701,898	6,238,346
5,808,962	6,524,253
5,840,033	6,682,483
5,911,692	

Non-Patent Literature Documents

C. KASAI, K. NAMEKAWA, A. KOYANO and R. OMOTO "Real-Time Two Dimensional Blood Imaging Using An Autocorrelation Technique", IEEE Transactions On Sonics and Ultrasonics, Vol. SU-32, no.3, pp 458-464, May 1985.

K. FERRARA and G. DeANGELIS, "Color Flow Mapping", Ultrasound in Medicine and Biology", Vol. 23, no. 2, pp 321-345, March 1997.

T. BUCK, et al., "Flow Quantification In Valvular Heart Disease Based On The Integral Of Backscattered Acoustic Power Using Doppler Ultrasound", PROC. IEEE, Vol. 88, no. 3 pp 307-330, March 2000.

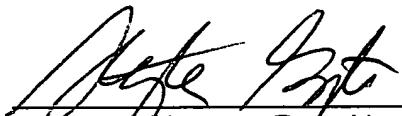
All of the above-listed references are in the English language. In such circumstances, comments concerning the relevance of the foregoing references are considered unnecessary.

In order to facilitate the Examiner's citation of the patents and publications listed above, applicant's attorney has completed United States Patent and Trademark Office Form PTO/SB/08 (formerly PTO-1449). The completed Form is attached hereto for the Examiner's convenience.

No fees are believed to be due in connection with the submission of this Information Disclosure Statement. If any such fees are due, the Examiner is hereby authorized to charge them to Deposit Account No. 501402.

Respectfully Submitted,

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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		Application Number	10/801,495
		Filing Date	March 16, 2004
		First Named Inventor	Kenneth Abend
		Art Unit	3737
		Examiner Name	TBA
Sheet	1	of	2
		Attorney Docket Number	

## **U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <i>(if known)</i>			
		US- 5,148,810		09/1992	Maslak , et al.	
		US- 5,261,408		11/1993	Maslak, et al.	
		US- 5,291,892		03/1994	O'Donnell	
		US- 5,409,010		04/1995	Beach , et al.	
		US- 5,546,807		08/1996	Oxaal, et al.	
		US- 5,623,930		04/1997	Wright, et al.	
		US- 5,701,898		12/1997	Adam, et al.	
		US- 5,808,962		09/1998	Steinberg, et al.	
		US- 5,840,033		11/1998	Takeuchi	
		US- 5,911,692		06/1999	Hussain, et al.	
		US- 5,922,962		07/1999	Israk, et al.	
		US- 5,928,151		07/1999	Hossack, et al.	
		US- 5,971,927		10/1999	Mine	
		US- 6,066,096		05/2000	Smith, et. al.	
		US- 6,135,971		10/2000	Hutchinson, et al.	
		US- 6,148,095		11/2000	Prause et al.	
		US- 6,238,346		5/2000	Mason	
		US- 6,524,253		2/2003	Abend	
		US- 6,682,483		1/2004	Abend	
		US-				

## **FOREIGN PATENT DOCUMENTS**

**Examiner  
Signature** \_\_\_\_\_ **Date  
Considered** \_\_\_\_\_

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.<sup>1</sup> Applicant's unique citation designation number (optional).<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449B/PTO		<b>Complete if Known</b>		
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		Filing Date	March 16, 2004	
		First Named Inventor	Kenneth Abend	
		Art Unit	3737	
		Examiner Name	TBA	
Sheet	2	of	2	Attorney Docket Number

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not relied upon.

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